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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/601,907	06/24/2003	Ju-Yup Kim	030681-528	7572	
21839	7590 08/09/2006		EXAMINER		
BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404			MERCADO, JULIAN A		
	A, VA 22313-1404		ART UNIT PAPER NUMBER 1745		
			DATE MAILED: 08/09/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

				i/			
		Application No.	Applicant(s)				
Office Action Summary		10/601,907	KIM ET AL.				
		Examiner	Art Unit				
		Julian Mercado	1745				
Period fo	 The MAILING DATE of this communication apport Reply 	pears on the cover sheet with th	e correspondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period of the toreply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply b will apply and will expire SIX (6) MONTHS f, cause the application to become ABANDO	ION. e timely filed rom the mailing date of this communi DNED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 19 M	lay 2006.					
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.				
Disposit	ion of Claims						
4)🖂	Claim(s) 1 and 3-21 is/are pending in the appli	cation.					
•	4a) Of the above claim(s) is/are withdraw						
5)□	Claim(s) is/are allowed.						
6)⊠	Claim(s) 1 and 3-21 is/are rejected.						
•	Claim(s) is/are objected to.						
8)[_	Claim(s) are subject to restriction and/o	r election requirement.					
Applicat	ion Papers						
9)[The specification is objected to by the Examine	er.					
10)[The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	ne Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
11)[Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	•					
Priority (under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119	9(a)-(d) or (f).				
·	1. Certified copies of the priority document	s have been received.					
	2. Certified copies of the priority document	s have been received in Applic	cation No				
	3. Copies of the certified copies of the prior	rity documents have been rece	eived in this National Stage	е			
	application from the International Bureau	•					
* (See the attached detailed Office action for a list	of the certified copies not rece	ived.				
Attachmen	nt(s)						
	ce of References Cited (PTO-892)	4) Interview Summ Paper No(s)/Ma					
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	(al Patent Application (PTO-152)				

Application/Control Number: 10/601,907

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DETAILED ACTION

Remarks

This Office action is responsive to applicant's amendment filed May 19, 2006.

Claims 1 and 3-21 are pending, of which claims 19-21 are newly submitted.

This Office action is made NON-FINAL.

Claim Rejections - 35 USC § 102

The rejection of claims 1, 3, 13, 14, 16 and 18 under 35 U.S.C. 102(b) based on Kita (JP 1-265-454) has been withdrawn.

The rejection of claims 1 and 2-18 under 35 U.S.C. 102(b) based on Chu et al. has been withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 4, 19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kita (JP 1-265-454).

New claims 19 and 21 are notably modeled after claims 1, 3 and 4. As set forth in the prior Office action, Kita teaches a lithium battery having dimethyl oxalate. See p. 308, col. 2. The organic solvent is propylene carbonate. See the Abstract.

Kita does not explicitly teach the amount of the oxalate in the range of 0.001 to 10 parts by weight. However, absent of unexpected results it is asserted that the amount of oxalate is an optimizable parameter for a result-effective variable. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980) The amount of oxalate directly affects the suppression of manganese dioxide and propylene carbonate. See the Abstract

Claims 5-18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kita (JP 1-265-454) in view of Chu et al. (U.S. Pat. 6,030,720)

New claim 20 is notably modeled after claim 5. Chu et al. is relied upon to teach that polyglymes and dioxolanes as solvents are art-recognized equivalents to carbonates, such as taught by Kita, and would be obvious variants in view of their known conductivity properties.

See for example Chu et al. in col. 3 line 4 et seq., col. 4 line 25 et seq. and col. 14 line 33 et seq.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian Mercado whose telephone number is (571) 272-1289. The examiner can normally be reached on Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

PATRICK JOSEPH RYAN
SUPERVISORY PATENT EXAMINER

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